NC/QC/DPD/2021-22/MS/1-C1

Date: 07-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NC/QC/DPD/2021-22/MS/1-C2

Date: 19-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra

Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/DPD/2021-22/MS/1-FA1

Date: 21-01-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.10**	60-95	75-100	85-100	
01.18	**71.25**	30-70	55-90	75-100	
600. mic	**47.85**	15.34	35-59	60-79	
300.mic	**22.35**	5-20	8-30	12-40	
150.mic	**7.85**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.64%**	-----
2	Silt Content	----	**0.58%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Mallasandra

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DPD/2021-22/MS/1-S1 Date: 21-01-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**

{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**560.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.50**	12.00	**20.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	545.0	**625.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Mallasandra

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DPD/2021-22/MS/1-CB1A

Date: 22-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-01-21	22-02-21	28	22500	505	22.44	**22.81**
	002	‘’	“	‘’	“	520	23.11	
	003	‘’	“	‘’	“	515	22.89	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra Ch:25.10m to 55.10m

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/DPD/2021-22/MS/1-CB3A

Date: 27-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-01-21	27-02-21	28	22500	515	22.89	**22.52**
	002	‘’	“	‘’	“	495	22.00	
	003	‘’	“	‘’	“	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra Ch:209.90m to 239.10m

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/YPD/2020-21/SP/W3-2-K1

Date: 22-02-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	**23.22**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.37	23.30		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	**4.46**
2	002	4.46	
3	003	4.55	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra

For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/YPD/2020-21/SP/W3-2-K2

Date: 26-02-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.10	**23.10**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.33	22.70		
3	003	3.39	23.50		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.56	**4.69**
2	002	4.72	
3	003	4.80	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Mallasandra

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore
Proprietor

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